

U

Benjamin Sullivan

Contents

1. Introduction
2. Sullivan Unifying Constant
3. Sullivan Newtonian Gravitation Equation
4. Probability, Quantum Mechanics, and Probability-Quanta
(Original Content and Thought Experiments)
5. Contact Information

Introduction

This publication is comprised of two equations which are derived and extrapolated from a book that I created in 2015/2016: Probability, Quantum Mechanics, and Probability-Quanta. The latter consists of various thought experiments and postulates. I have included scans from the original book in an effort to demonstrate my work and in the hopes of having the experiments conducted.

I do not have any formal education in physics and I realize that producing the publication without any academic background will see the work be dismissed or seen as suspect by many.

What I do possess is the ability to know when something is right.

Something is right.

Title: Sullivan Unifying Constant
Author: Benjamin Allen Sullivan
Comments: Equation, 2 pages with 9 Figures
Subj-class: Physics

The Sullivan Unifying Constant is an equation that resolves the long-sought pursuit of understanding the unification of the known forces in the universe and how they interact with each other. This equation can be applied to or within any of the known sciences. The equation incorporates and demonstrates the interaction between forces known within “Classical Physics” and merges them with modern “Quantum Theory”.

1. Each individual component of the equation has been professionally pursued with vigour by various people, schools, and various scientific organizations. As mentioned, the equation incorporates and demonstrates the interaction between forces known within “Classical Physics” and merges them with modern “Quantum Theory”. It accomplishes this by incorporating the Spin Values (SV) of the Masses.
2. My equation resolves the long-sought pursuit of understanding the unification of the known forces in the universe and how they interact with each other. It does this by demonstrating the interchangeable nature of the known Force Carriers within the equation:
3. Figures:

Figure 1: Sullivan Unifying Constant Equation

$$FC = T \frac{FCm1 \uparrow^{sv} FCm2 \downarrow^{sv}}{FCd^2}$$

Figure 2 FC = Any Force Carrier

FC

FC = G for Gravity, EM for Electromagnetism, SF for Strong Force, WF for Weak Force.

Figure 3: Force Carriers

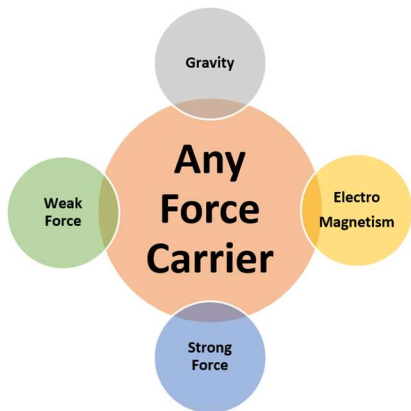


Figure 4: Sullivan Unifying Constant Equation Example Using Force of Gravity:

$$F = T \frac{SFm1 \uparrow^{sv} WFm2 \downarrow^{sv}}{EMd^2}$$

Figure 5: Equation Component #1 - Force of Gravity.

F

Figure 6: Equation Component #2 – Time (Constant).

T

Figure 7: Equation Component #3 - Strong Force (SF) - Mass 1 (m1) with indication of Spin Value (SV) Entangled or Otherwise.

$$SFm1\uparrow^{SV}$$

Figure 8: Equation Component #4 - Weak Force (WF) - Mass 2 (m2) with indication of Spin Value (SV) Entangled or Otherwise.

$$WFm2\downarrow^{SV}$$

Figure 9: Equation Component #5 – Electro Magnetism (EM) and Distance (d2).

$$EMd^2$$

4. Description: The Sullivan Unifying Constant demonstrates the interaction of the known forces within universe.
5. Examples of use: The Sullivan Unifying Constant provides enlightenment within all sciences. The equation offers a framework of understanding that allows for the creation of new technologies by progressing the field of science forward with new vigour derived from comprehension of the equation. Many of the implications (technological and otherwise) of the equation have yet to be discovered due to its newly formalized conception. It requires the contemplation of all with interest to achieve its maximum potential.

Title: Sullivan-Newtonian Gravitational Equation
Author: Benjamin Allen Sullivan
Comments: Equation, 2 pages with 6 Figures
Subj-class: Physics

The Sullivan-Newtonian Gravitational Equation is related to Gravity within the field of Physics and all other affected Sciences. The equation is an altercation of Sir Isaac Newton's Universal Law of Gravitation. The equation merges and demonstrates the interaction between what is known as "Classical Physics" and modern "Quantum Theory".

1. As mentioned, the equation merges and demonstrates the interaction between what is known as "Classical Physics" and modern "Quantum Theory". It accomplishes this by incorporating the Spin Values (SV) of the Masses into the original equation. Individual components of the original Sir Isaac Newton equation have been professionally pursued with vigour by various people, schools, and various scientific organizations.
2. My equation resolves the long-sought pursuit of understanding the complete nature of Gravity.
3. Figures:

Figure 10: Sullivan-Newtonian Gravitational Equation

$$F = G \frac{M1 \uparrow^{SV} M2 \downarrow^{SV}}{D^2}$$

Figure 11: Equation Component #1 - Force of Gravity

F

Figure 12: Equation Component #2 – Constant

G

Figure 13: Equation Component #3 - Mass 1 (M1) with indication of Spin Value (SV) Entangled or Otherwise.

M1↑^{SV}

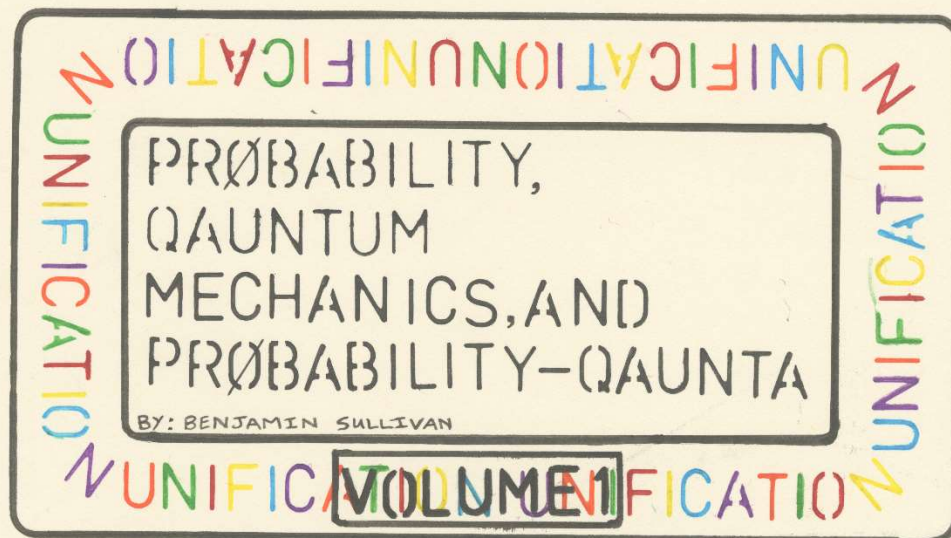
Figure 14: Equation Component #4 - Mass 2 (M2) with indication of Spin Value (SV) Entangled or Otherwise.

M2↓^{SV}

Figure 15: Equation Component #5 – Distance (D2)

D²

4. Description: The Sullivan-Newtonian Gravitational Equation demonstrates a comprehensive framework of Gravity.
5. Examples of use: The Sullivan-Newtonian Gravitational Equation provides enlightenment within all sciences affected by Gravity. The equation offers a framework of understanding that allows for the creation of new technologies by progressing the field of science forward with new vigour derived from comprehension of the equation. Many of the implications (technological and otherwise) of the equation have yet to be discovered due to its newly formalized conception. It requires the contemplation of all with interest to achieve its maximum potential.



FOREWARD



PROBABILITY, QUANTUM MECHANICS, AND PROBABILITY - QUANTA
UNIFICATION WAS WRITTEN BY MYSELF OVER A PERIOD OF

ALTERED FORMULA

$$F = G \frac{M1}{D^2} M2$$

NEWTONS LAW OF GRAVITY

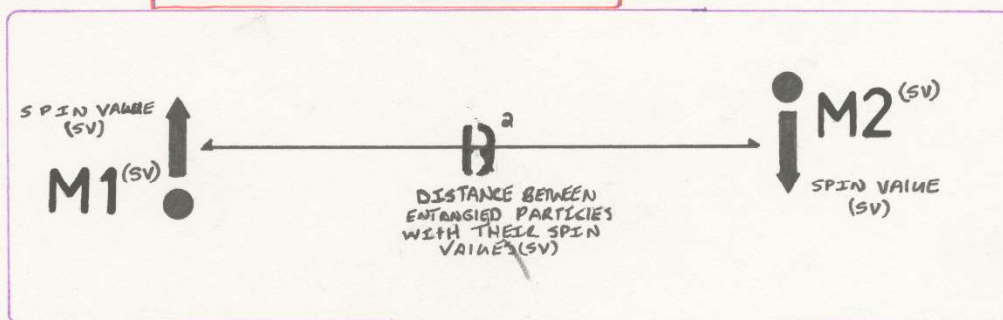
CLASSIC

PROPOSED ALTERED FORMULA
(ENTANGLED PARTICLES / MASS SPIN)

PROPOSED

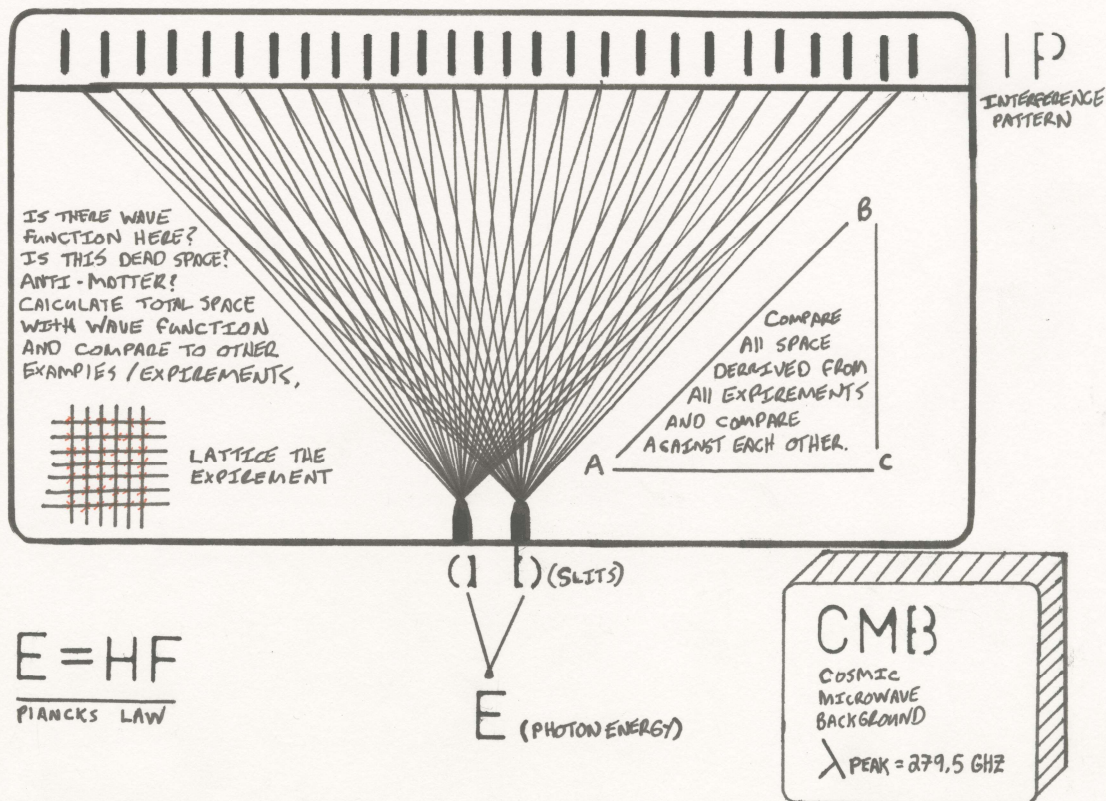
$$F = G \frac{\overset{(SV)}{\uparrow} M1 \overset{(SV)}{\downarrow} M2}{D^2}$$

SPIN VALUES FOR EACH MASS



PROPOSED EXPERIMENTS:

- VARIOUS PARTICLES WITH DIFFERENT WEIGHTS / MASS / SPIN(S)
- LOW KEVIN EXPERIMENT WITH THE SAME DATA
- VARIATIONS OF THE EXPERIMENT WITH DIFFERENT SPIN VALUES (SV) AND MASSES
- VARIOUS ENVIRONMENTS OF ELECTROMAGNETISM



PROPOSED FORMULA:

$$\frac{|f| (\sigma = \sigma^1 + \sigma^2, \text{ETC.}) = (1 + 1) = E}{\lambda \text{ (XX FACTOR BASED ON WAVE AMPLITUDE)}}$$

OR:

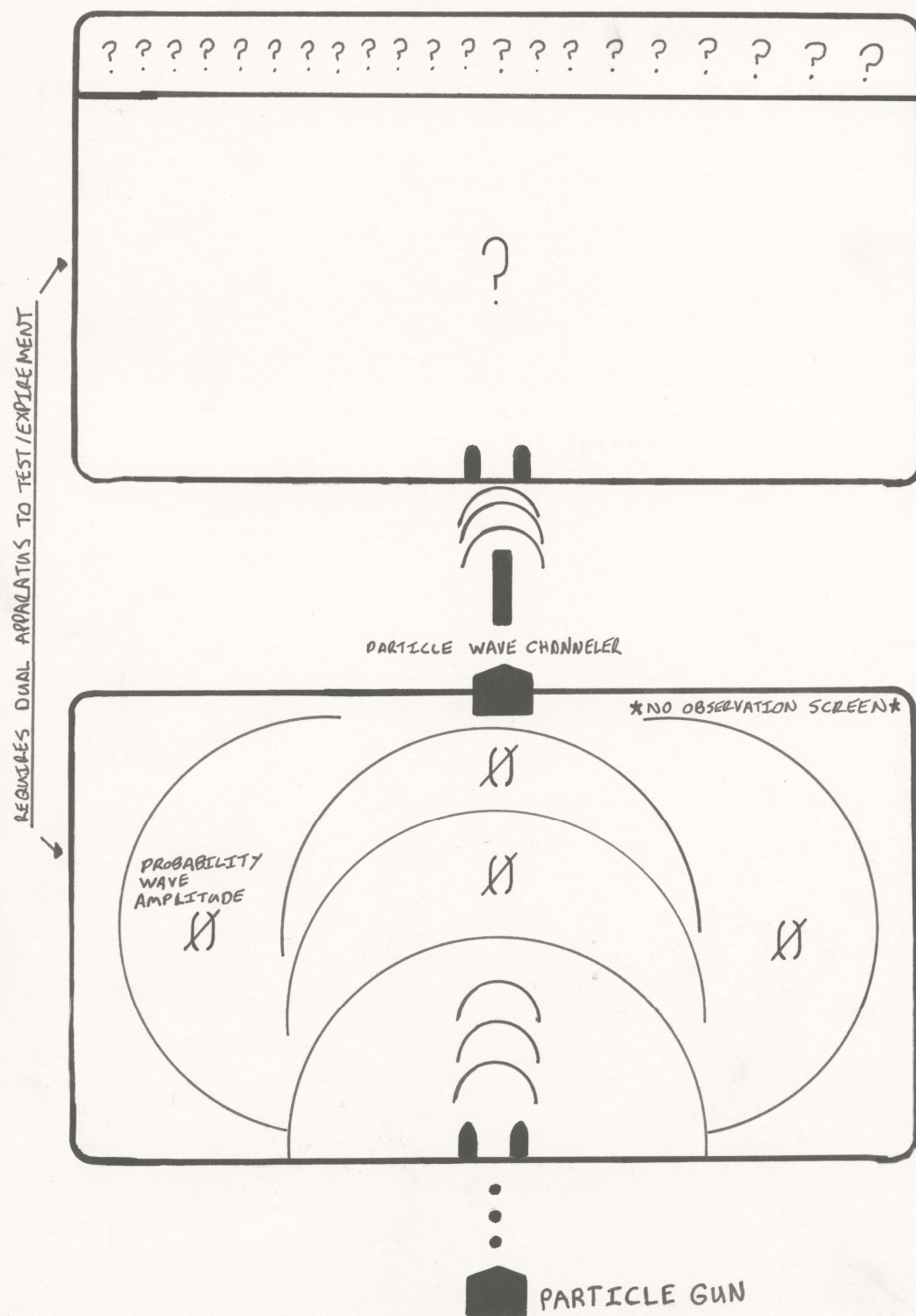
$$\frac{\lambda^{(xx)} = |f|^{(xx)}}{(1 + 1) = E} \therefore \lambda^{xx} = H$$

SO:
(PROPOSED)

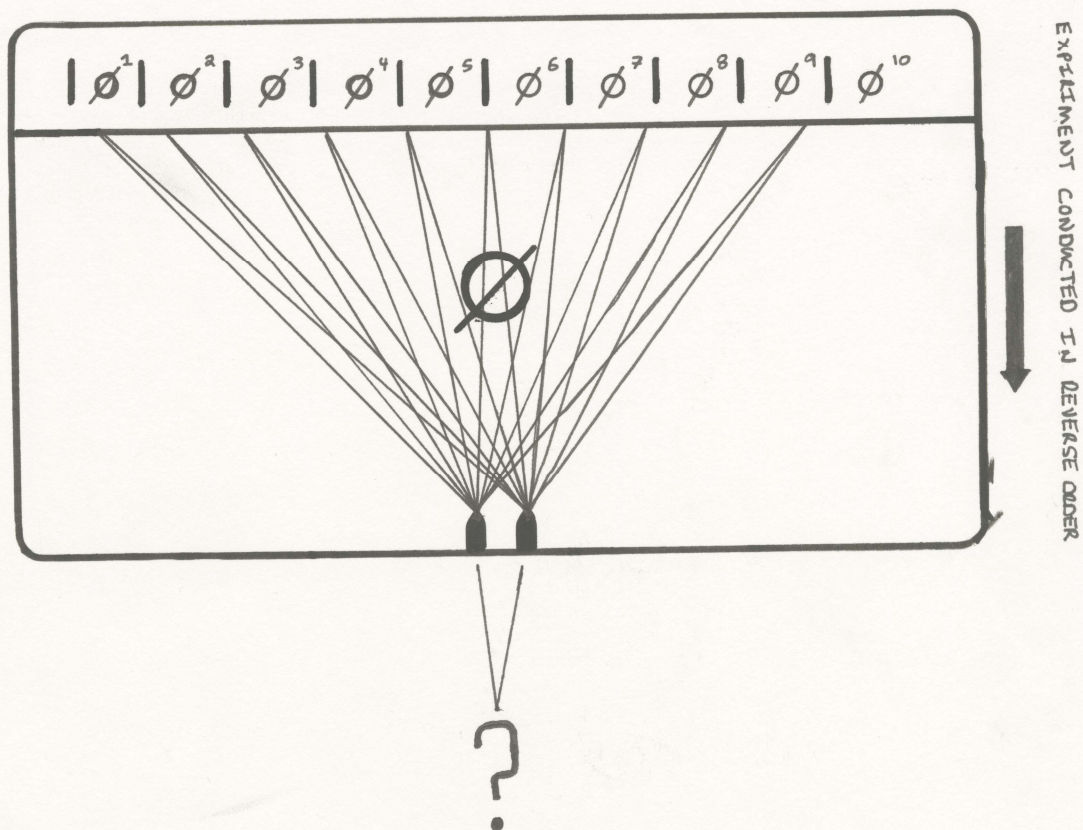
$$\lambda = H \text{ CM} \lambda \text{ (IN THIS CASE PEAK FREQUENCY)}$$

OR:

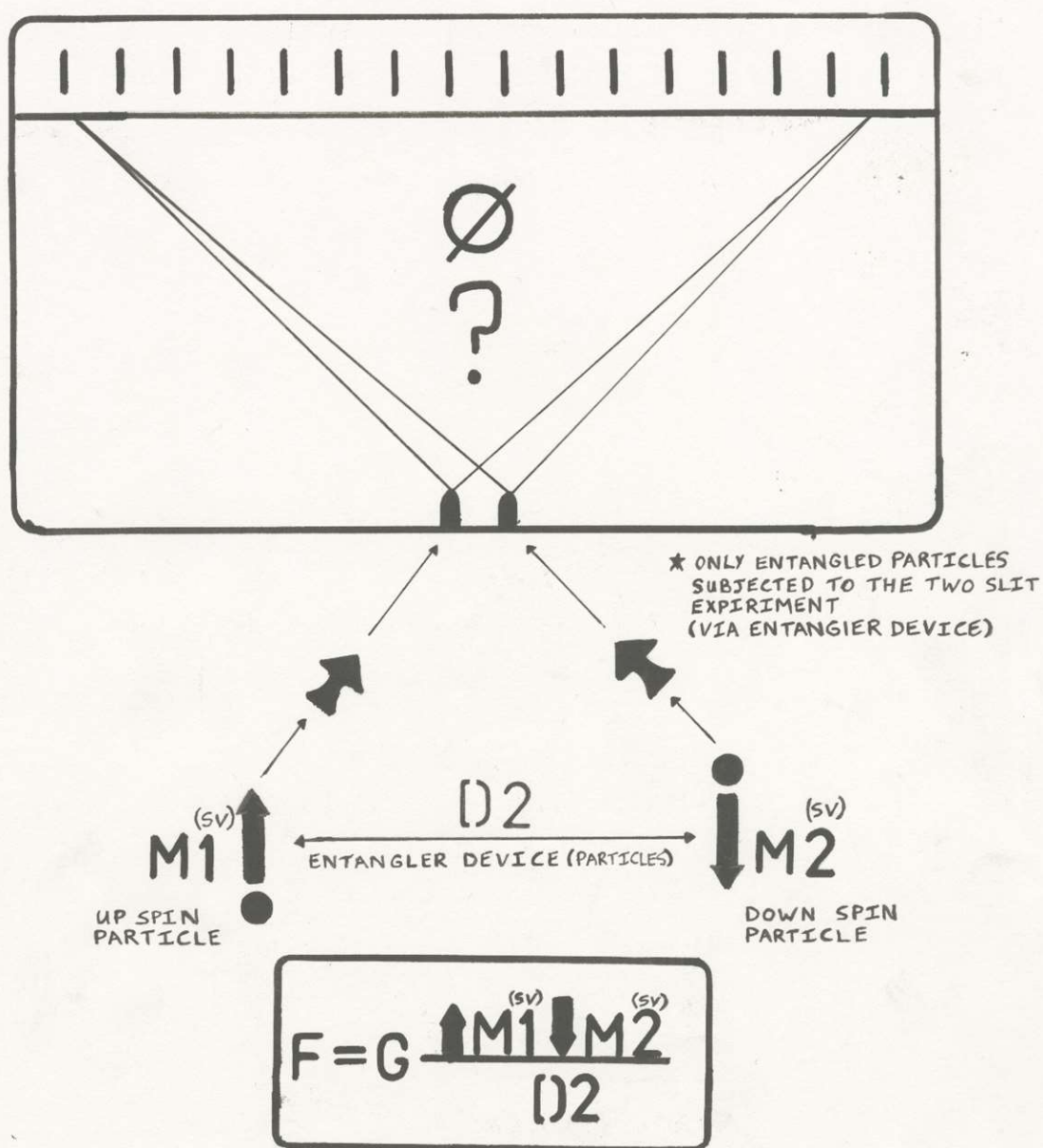
$$E = \frac{HF}{\text{CM} \lambda}$$



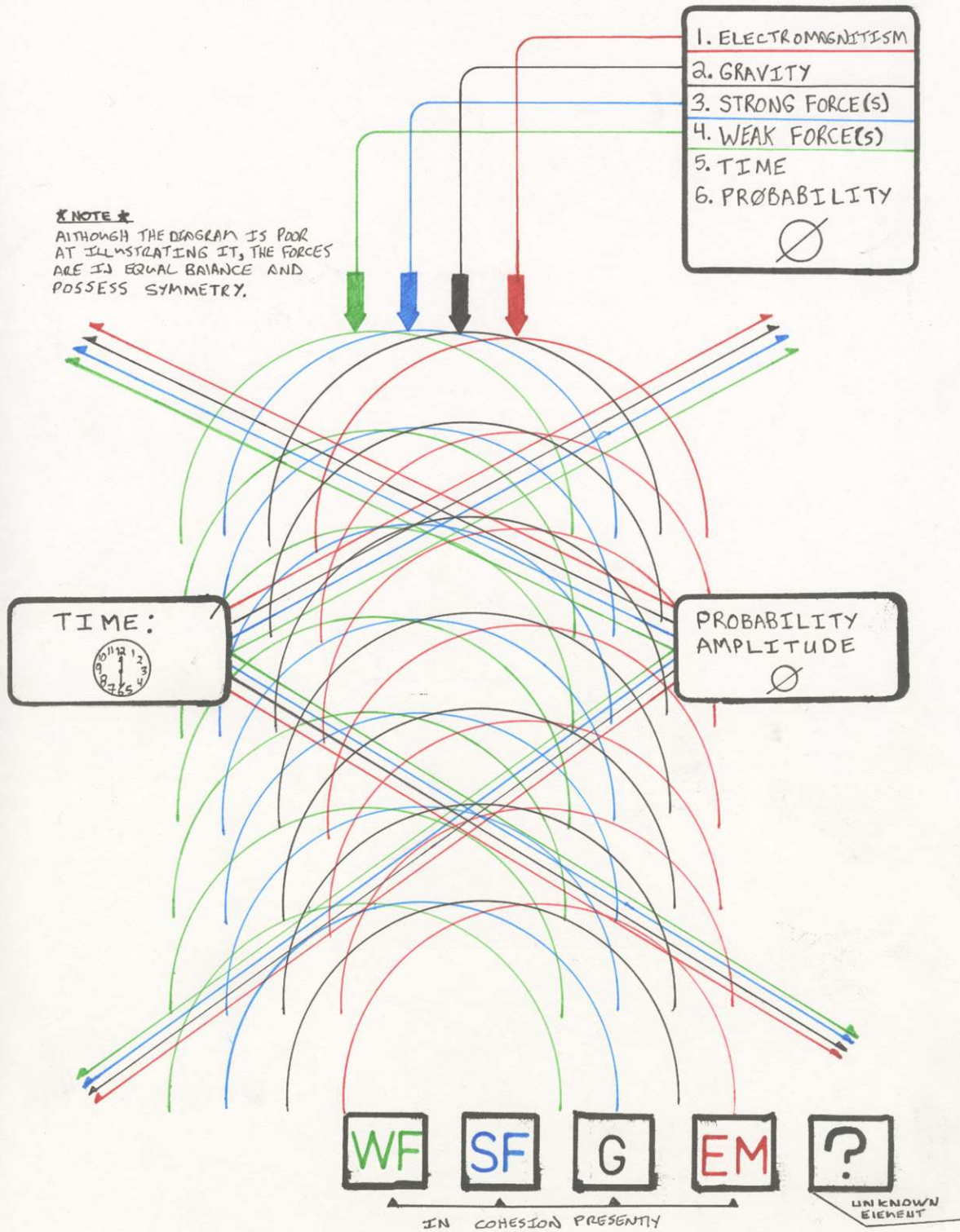
PROPOSED REVERSE EXPERIMENT-USE INTERFERENCE
PATTERN DATA "FIRST" AND REVERSING THE DATA
THROUGH TWO SLITS:





PROPOSED ENTANGLED PARTICLES ONLY EXPERIMENT



CONCEPTUAL VISUAL UNIFICATION AID



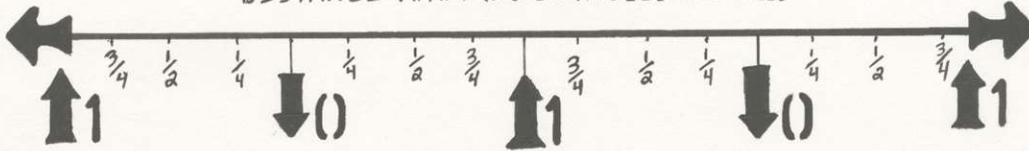
BINARY EXPLANATION
REGARDING DISTANCE
OF ENTANGLED
PARTICLES AND THEIR
CORRESPONDING
SPIN VALUES
(SV)  

$$F = G \frac{\overset{(SV)}{\uparrow} M1 \overset{(SV)}{\downarrow} M2}{D^2}$$

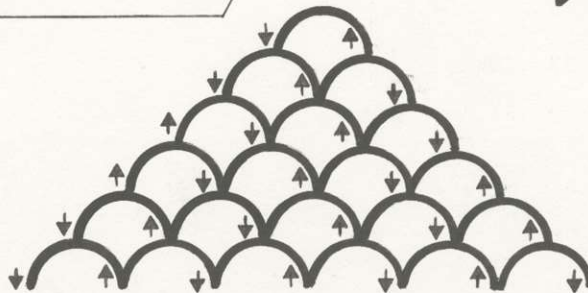
8

BINARY

DISTANCE APART (D^2) ENTANGLED PARTICLES

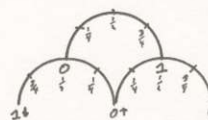


PROBABILITY WAVE AMPLITUDE
THEORY. I POSTULATE THAT
THE CONVERGING POINTS
ALTERNATE PARTICLE
SPIN.

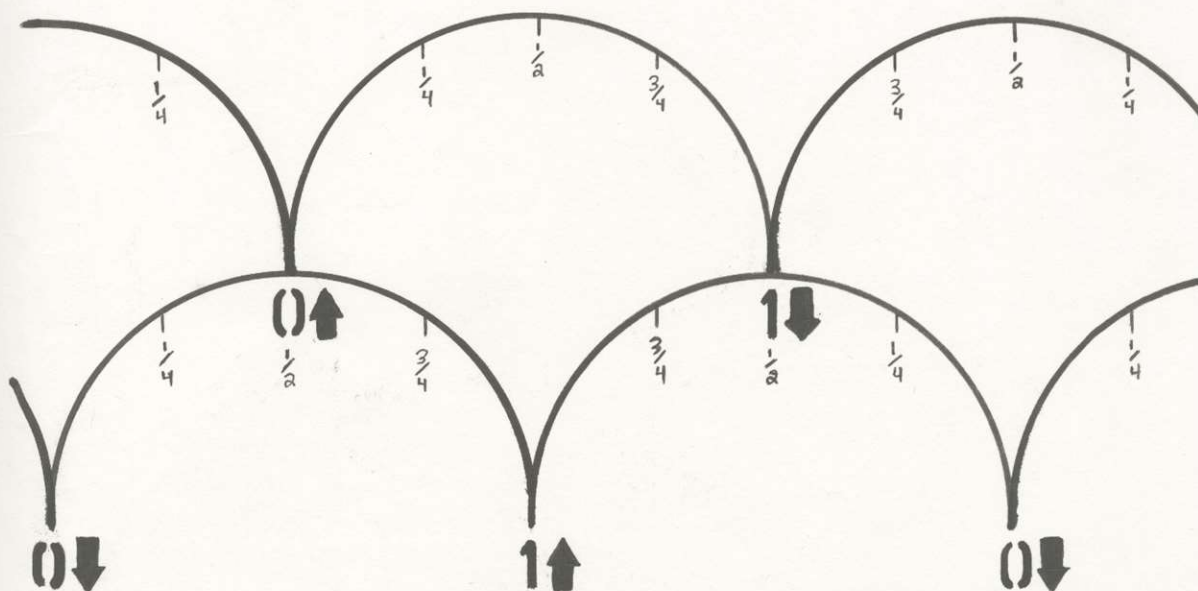


ENTANGLED PARTICLE SPIN VALUE (SV)
DETERMINED BY WAVE AMPLITUDE \emptyset

BINARY SYSTEM
WAVE CONVERGING POINTS



$\emptyset 2$



$$F = G \frac{\overset{(sv)}{\uparrow} M1 \overset{(sv)}{\downarrow} M2}{\emptyset 2}$$

$$FC = T \frac{\uparrow^{(ANY)} FCm1 \downarrow^{(ANY)} FCm2}{FCd^2}$$

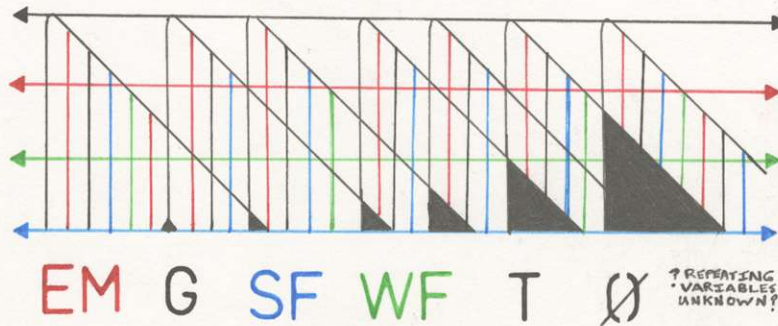
(TIME) CONSTANT

FC = ANY FORCE CARRIER



- GRAVITY
- ELECTROMAGNETISM
- STRONG FORCE
- WEAK FORCE

UNIFYING CONSTANT



PROPOSED UNIFYING THEORY
(GRAVITY EXAMPLE)

FORCE OF GRAVITY

$$F = T$$

TIME CONSTANT

$$\frac{\uparrow^{(SV)} SFm1 \downarrow^{(SV)} WFm2}{EMd^2}$$

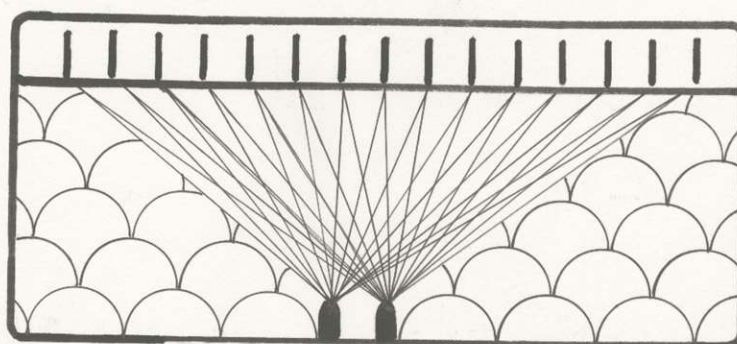
ELECTROMAGNETISM

DISTANCE BETWEEN FORCES / MASSES (d²) (ATTRACTION)

$$F = T \frac{SFm1 \uparrow^{(sv)} WFm2 \downarrow^{(sv)}}{EMd^a}$$

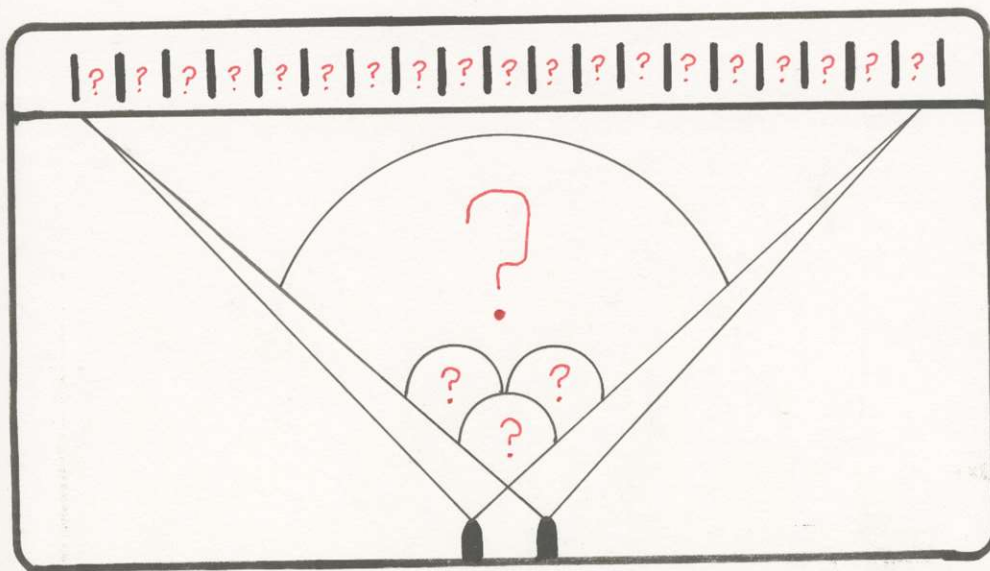
$$F = MA$$

ENTANGLED POSITION



PROBABILITY

$$F = G \frac{\uparrow^{(SV)} M1 \downarrow^{(SV)} M2}{D^2}$$



1. WHAT EFFECT DOES THE DISTANCE BETWEEN THE PARTICLE GUN AND OBSERVATION SCREEN HAVE ON THE EXPERIMENT ???

2.

$$F = M^{(SV)} A$$

FORCE = MASS^(SV) X ACCELERATION
WITH THE ADDITION OF THE SPIN
VALUE (SV) ANNOTATED / MEASURED
FOR THE ENTANGLED PARTICLE (S)
ENTERING THE EXPERIMENT.



ENTANGLED PARTICLE GUN (SV)²

THE MAJORITY OF QM EXPERIMENTS HAVE BEEN CONDUCTED AT LOW TEMPERATURE CONDITIONS (WITH PROGRESSIVE EFFORT TOWARDS WARMER TEMPERATURES). I POSTULATE THAT WE ARE MISSING SIGNIFICANT ELEMENTS OF QM THEORY BY NOT CONDUCTING EXPERIMENTS AT HIGH TEMPERATURES. WITH THE REALIZATION THAT HIGH TEMPERATURES WITHIN QM EXPERIMENTS ARE DIFFICULT TO DETECT, EVERY EFFORT SHOULD BE MADE TO EXPERIMENT AT ALL TEMPERATURES.



HIGH-TEMP



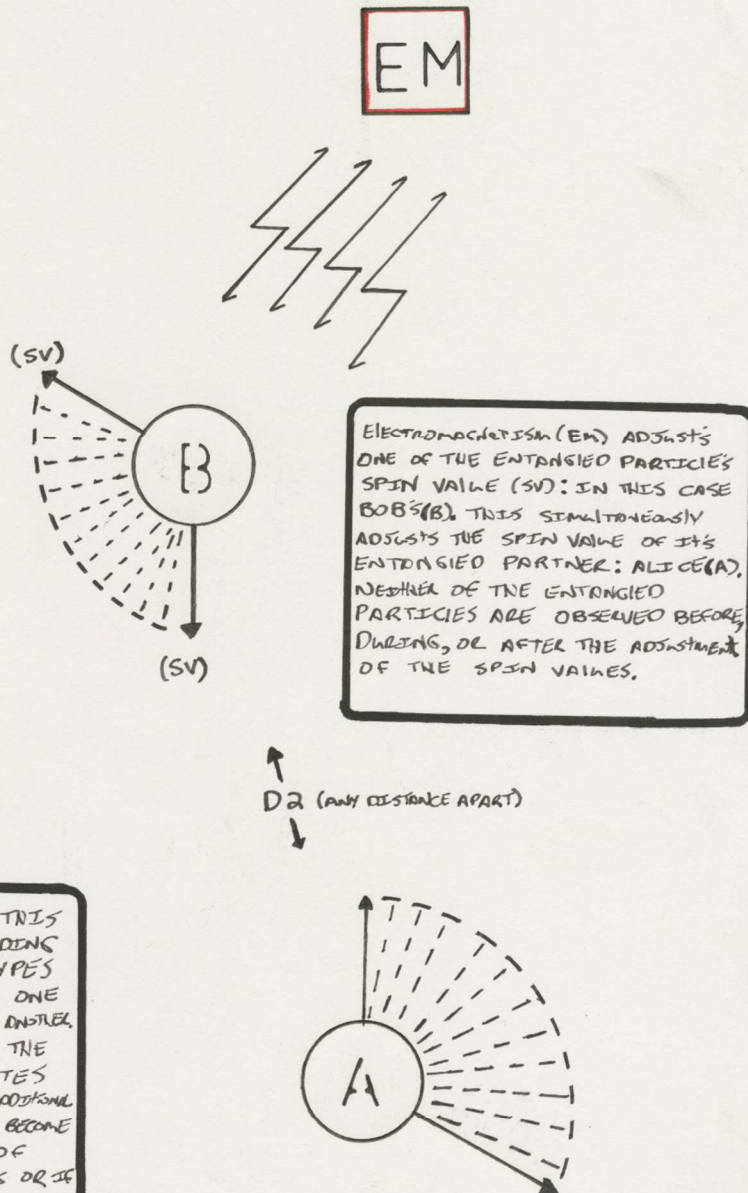
MID



ULTRA-LOW

ALTERING SPIN VALUES (SV) OF ENTANGLED PARTICLES FOR INFORMATION ENCODING AND TRANSMISSION

14



ALTERING THE SPIN VALUES IN THIS MANNER ALLOWS FOR THE ENCODING OF VARIOUS INFORMATION TYPES THAT MAY WORK BETTER IN ONE SPIN VALUE (SV) OPPOSED TO OTHER. THIS PROCESS WILL ALLOW FOR THE CHANGING OF ENTANGLED STATES SIMILAR TO THAT OF A TRADITIONAL "CRYPTO CHANGE". THIS WOULD BECOME RELEVANT WITH THE ADVENT OF ENTANGLED PARTICLE DETECTORS OR IF ENTANGLED "JAMMERS" WERE TO COME TO FRUITION.

Acknowledgments

My acknowledgment and admiration to Sir Isaac Newton for the inspiration for my creation of the Sullivan-Newtonian Gravitational (SNG) Equation and for his contributions to our current understanding of our Universe. To Albert Einstein for the inspiration to discover the Sullivan Unifying Constant (SUC). To Richard Feynman for providing a method (*Feynman Diagrams*) to put my abstract thoughts and discoveries into coherent diagrams.

To my Father, Allen Sullivan for making me the man that I am today.

Conclusion

I welcome any correspondence on the content of the publication and I look forward to receiving your feedback.

Questions?

Postulates?

Problems?

Alterations?

Experimental Results?

Contact Information

Benjamin Allen Sullivan

Website: WWW.BASRC.Biz

E-Mail: CEO@BASRC.Biz

Thoughts